



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-04/817b/CEMENT/2015-16

Date: 18.04.2015

TEST REPORT ON CEMENT



* CUSTOMER	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	: Technical Manager (West), KRIDL, Bangalore.
*NAME OF THE WORK	: Construction of drains at Raja Reddy Layout 1 st Main Road in Ward No. 14, BBMP, Bangalore.
REFERENCE	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 16.04.2015
SAMPLE ID	: Cement – Sample 2
SAMPLE RECEIVED ON	: 16.04.2015
PERIOD OF TESTING	: 16.04.2015 to 18.04.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-04/817b/SAND-Gradation/2015-16

: 18.04.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
 * **Agency** : Technical Manager (West), KRIDL, Bangalore.
 * **Name of Work** : Construction of drains at Raja Reddy Layout 1st Main Road in Ward No. 14, BBMP, Bangalore.
Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 16.04.2015
Technical Reference : IS : 2386 Part 1 - 1963 RA-2007
Sample ID : Fine Aggregates - Sample 2
Sample Received on : 16.04.2015
Date of Testing : 18.04.2015



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.10	90-100	90-100	90-100	95-100
2.36	77.60	60-95	75-100	85-100	95-100
1.18	58.20	30-70	55-90	75-100	90-100
600 Micron	39.60	15-34	35-59	60-79	80-100
300 Micron	13.90	5-20	8-30	12-40	15-50
150 Micron	4.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-04/817b/AGG/GR/2014-15



: 18.04.2015

TEST REPORT ON COARSE AGGREGATES

- * **Customer** : Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
- * **Agency** : Technical Manager (West), KRIDL, Bangalore.
- * **Name of Work** : Construction of drains at Raja Reddy Layout 1st Main Road in Ward No. 14, BBMP, Bangalore.
- Reference** : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 16.04.2015
- Technical Reference** : IS : 2386 Part 1 -1963 RA-2007
- Sample ID** : Coarse Aggregates (40mm) - Sample 2
- Sample Received on** : 16.04.2015
- Date of Testing** : 18.04.2015

Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.54	95-100	85-100
20	41.62	30-70	0-20
10	13.37	10-35	0-5
4.75	2.83	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-04/817b/CC Solid Block/2015-16

: 20.04.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer : Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
 * Agency : Technical Manager (West), KRIDL, Bangalore.
 * Name of the Work : Construction of drains at Raja Reddy Layout 1st Main Road in Ward No. 14, BBMP, Bangalore.
 Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 16.04.2015
 Sample Received on : 16.04.2015
 Date of Testing : 20.04.2015
 Size of Blocks : 400mm x 200mm x 200mm
 Cross Sectional Area : 80000 mm²
 Technical Reference : IS: 2185 (Part 1) - 2005
 No. of Blocks Tested : 08



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	36.52	261.5	3.27	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	36.84	263.4	3.29	
3	Block 3	37.21	260.5	3.26	
4	Block 4	36.23	262.2	3.28	
5	Block 5	35.19	262.9	3.29	
6	Block 6	36.45	264.3	3.30	
7	Block 7	37.34	262.9	3.29	
8	Block 8	35.28	263.8	3.30	

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